

Catalyst for synthesizing methyl mercaptan from synthesized gas contg. hydrogen sulfide

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Abstract of **CN1207957**

The catalyst has one carrier selected from SiO₂, gamma-Al₂O₃, TiO₂ or RE oxide and its active component Mo-S-K radical is transformed from precursor K₂MoS₄ or (NH₄)MoS₄+K₂CO₃. Under the conditions of 295 deg.c temperature, normal pressure, volume proportion of high-sulphur synthesis gas CO-H₂-H₂S being 1 to 2 to 0.1-1, and 2000-5000/hr space velocity, the catalyst can result in methyl mercaptan space-time yield of 0.15g/hr each gram of catalyst and selectivity of 98.5%.

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